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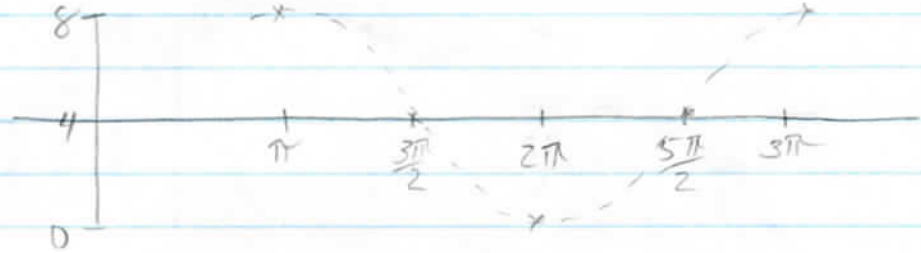
2. e. $y = 4\cos(x - \pi) + 4$

$a = 4$

$b = 1$ per $= 2\pi$

$c = \pi$ right

$d = 4$ up



★ f. $y = 3\cos(2x - \frac{\pi}{6}) + 7$

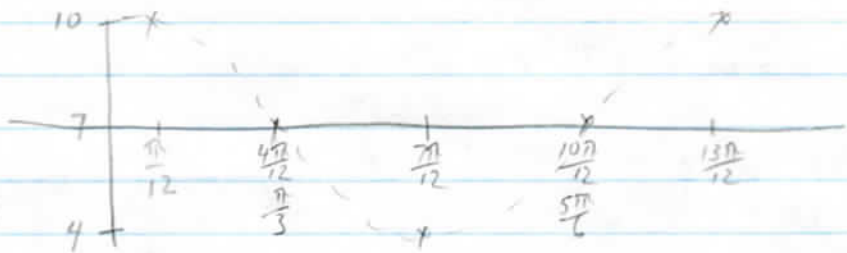
$y = 3\cos 2(x - \frac{\pi}{12}) + 7$

$a = 3$ quad $= \frac{\pi}{4}$

$b = 2$ per $= \frac{2\pi}{b} = \pi$

$c = \pi/12$ right

$d = 7$ up



Checked on winplot

$\frac{\pi}{12} + \pi = \frac{13\pi}{12}$